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TITLE: CONSTRUCTION METHOD FOR PREVENTING LIQUEFACTION IN  
EARTHQUAKE OF SOIL WITHIN CITY OR THE LIKE BY INJECTING  
AIR-DISSOLVED WATER OR COMPRESSED AIR INTO GROUND, DEVICE  
USED THEREFOR, AND CONSTRUCTION METHOD THEREFOR

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a construction method for preventing liquefaction in earthquake for a soil which can be carried out without lowering a groundwater level in a city area and the like, and to provide a structure for a run-off tube well, a collection tube well or the like, and a method for installing the tube wells.

SOLUTION: Water mixed with very fine air bubbles and dissolved with saturated air or more is made to flow into the soil of weak cohesion, or compressed air is blown in to form an area mixed with very fine air bubbles in the soil, and a degree of saturation in the soil of the area is reduced up to a degree where the liquefaction is not generated in the earthquake, to prevent the generation of the liquefaction.

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